

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
DT1502 10/2010 s.66.29(7) Wis. Stats.

Proposal Number:

17

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Southeast Region Wide	1000-68-90		Highway Lighting Maintenance 2015	Various Highways

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required, \$ 20,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: May 12, 2015 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time Sixty (60) Working Days	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 0 %	This contract is exempt from federal oversight.

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State Wisconsin)

(Date Commission Expires)

Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only

Type of Work Luminaire maintenance, highway lighting distribution center preventive maintenance, undistributed lighting repairs, traffic control, and related work.	Date Guaranty Returned
Notice of Award Dated	

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

The bidder, signing and submitting this proposal, agrees and declares as a condition thereof, to be bound by the following conditions and requirements.

If the bidder has a corporate relationship with the proposal design engineering company, the bidder declares that it did not obtain any facts, data, or other information related to this proposal from the design engineering company that was not available to all bidders.

The bidder declares that they have carefully examined the site of, and the proposal, plans, specifications and contract forms for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the specifications, special provisions and contract. It is mutually agreed that submission of a proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder submits herewith a proposal guaranty in proper form and amount payable to the party as designated in the advertisement inviting proposals, to be retained by and become the property of the owner of the work in the event the undersigned shall fail to execute the contract and contract bond and return the same to the office of the engineer within fourteen (14) days after having been notified in writing to do so; otherwise to be returned.

The bidder declares that they understand that the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the specifications.

The bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amounts in full payment of said work.

The bidder declares that all of the said work will be performed at their own proper cost and expense, that they will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications and the approved plans for the work together with all standard and special designs that may be designed on such plans, and the special provisions in the contract of which this proposal will become a part, if and when accepted. The bidder further agrees that the applicable specifications and all plans and working drawings are made a part hereof, as fully and completely as if attached hereto.

The bidder, if awarded the contract, agrees to begin the work not later than ten (10) days after the date of written notification from the engineer to do so, unless otherwise stipulated in the special provisions.

The bidder declares that if they are awarded the contract, they will execute the contract agreement and begin and complete the work within the time named herein, and they will file a good and sufficient surety bond for the amount of the contract for performance and also for the full amount of the contract for payment.

The bidder, if awarded the contract, shall pay all claims as required by Section 779.14, Statutes of Wisconsin, and shall be subject to and discharge all liabilities for injuries pursuant to Chapter 102 of the Statutes of Wisconsin, and all acts amendatory thereto. They shall further be responsible for any damages to property or injury to persons occurring through their own negligence or that of their employees or agents, incident to the performance of work under this contract, pursuant to the Standard Specifications for Road and Bridge Construction applicable to this contract.

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

The contractor agrees to post notices and posters setting forth the provisions of the nondiscrimination clause, in a conspicuous and easily accessible place, available for employees and applicants for employment.

If a state public official (section 19.42, Stats.) or an organization in which a state public official holds at least a 10% interest is a party to this agreement, this contract is voidable by the state unless appropriate disclosure is made to the State of Wisconsin Ethics Board.

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in **section 102** of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.
- (3) The department will provide bidding information through the department's web site at <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm>. The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 P.M. local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.
- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

Info Tech Inc.
5700 SW 34th Street, Suite 1235
Gainesville, FL 32608-5371
email: <mailto:customer.support@bidx.com>

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm> or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.
 2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in **102.6** and **102.9** of the standard specifications, submit the proposal on the internet as follows:

1. Download the latest schedule of items reflecting all addenda from the Bid Express™ web site.
 2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

B.2 On a Printout with Accompanying Diskette or CD ROM

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at <http://www.dot.wisconsin.gov/business/engrserve/bid-letting-information.htm>. Use Expedite™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.
- (5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

- (1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.
- (2) Submit a schedule of items on paper conforming to [section 102](#) of the standard specifications. The department charges the bidder a \$75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."
- (3) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
 2. The bidder fails to pay the \$75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the \$75.
 3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.
- (4) In addition to the reasons specified in [section 102](#) of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

Proposal Number	Project Number	Letting Date
Name of Principal		
Name of Surety	State in Which Surety is Organized	

We, the above-named Principal and the above-named Surety, are held and firmly bound unto the State of Wisconsin in the sum equal to the Proposal Guaranty for the total bid submitted for the payment to be made; we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. The condition of this obligation is that the Principal has submitted a bid proposal to the State of Wisconsin acting through the Department of Transportation for the improvement designated by the Proposal Number and Letting Date indicated above.

If the Principal is awarded the contract and, within the time and manner required by law after the prescribed forms are presented for signature, enters into a written contract in accordance with the bid, and files the bond with the Department of Transportation to guarantee faithful performance and payment for labor and materials, as required by law, or if the Department of Transportation shall reject all bids for the work described, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect. In the event of failure of the Principal to enter into the contract or give the specified bond, the Principal shall pay to the Department of Transportation **within 10 business days of demand** a total equal to the Proposal Guaranty as liquidated damages; the liability of the Surety continues for the full amount of the obligation as stated until the obligation is paid in full.

The Surety, for value received, agrees that the obligations of it and its bond shall not be impaired or affected by any extension of time within which the Department of Transportation may accept the bid; and the Surety does waive notice of any such extension.

IN WITNESS, the Principal and Surety have agreed and have signed by their proper officers and have caused their corporate seals to be affixed this date: **(DATE MUST BE ENTERED)**

PRINCIPAL

(Company Name) **(Affix Corporate Seal)**

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

(Name of Surety) **(Affix Seal)**

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

IMPORTANT: A certified copy of Power of Attorney of the signatory agent must be attached to the bid bond.

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

Time Period Valid (From/To)	
Name of Surety	
Name of Contractor	
Certificate Holder	Wisconsin Department of Transportation

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the annual bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing surety will give thirty (30) days written notice to the certificate holder indicated above.

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

Section 66.0901(7), Wisconsin Statutes, provides that as a part of the proposal, the bidder also shall submit a list of the subcontractors the bidder proposes to contract with and the class of work to be performed by each. In order to qualify for inclusion in the bidder's list a subcontractor shall first submit a bid in writing, to the general contractor at least 48 hours prior to the time of the bid closing. The list may not be added to or altered without the written consent of the municipality. A proposal of a bidder is not invalid if any subcontractor and the class of work to be performed by the subcontractor has been omitted from a proposal; the omission shall be considered inadvertent or the bidder will perform the work personally.

No subcontract, whether listed herein or later proposed, may be entered into without the written consent of the Engineer as provided in Subsection 108.1 of the Standard Specifications.

[illegible]

DECEMBER 2000

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS - PRIMARY COVERED TRANSACTIONS**

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

- (1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1000-68-90 Highway Lighting Maintenance 2015, Various Highways; Southeast Region Wide, located in Ozaukee, Washington, Racine, Kenosha, Walworth, Waukesha and Milwaukee Counties, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2015 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20141107)

2. Scope of Work.

The work under this contract shall consist of luminaire maintenance, highway lighting distribution center preventive maintenance, undistributed lighting repairs, traffic control and related work and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Prior to the preconstruction conference, submit in writing to the engineer for approval the proposed general schedule of operations (requirements of submitting day-to-day scheduling are shown below), consistent with the working days provided in this contract. Deploy sufficient forces (equipment and workers) to accomplish the required work within the allotted time.

Comply with all local ordinances that apply to contract operations, including those that pertain to nighttime work. Furnish to the engineer any ordinance variation by the municipality or required permits, before performing such work.

A week in advance, provide to the engineer a schedule of day-to-day operations by location. Adhere to this schedule unless the engineer agrees in advance to a change. The department reserves the right to alter the sequence of luminaire maintenance operations for reasons of directing the contractor to areas of greatest priority, as determined by the engineer. In these cases, the contractor will be allowed two calendar weeks to respond to the priorities given to him.

The engineer may suspend operations in the event of a hazardous situation.

An erosion control implementation plan (ECIP) shall be submitted to the appropriate WisDOT and WisDNR offices at least 14 days prior to the preconstruction conference. Erosion control shall be incidental to any and all applicable items in this project, which could include, but not necessarily be limited to, items that involve ground disturbance.

4. Work by Others.

Conflicts between work required under this contract, and work by others, shall be resolved on a priority basis by the engineer in consultation with the Statewide Traffic Operations Center. Work by others will include routine maintenance and scheduled construction projects on various highways.

5. Location of Work and Possible Payment of Distance Premiums.

A list of lighting systems in the plans identifies each as located in Zones 1 or 2, depending on the approximate distance from the center of Milwaukee.

Distance premium is to be paid only for undistributed repairs, if any.

Undistributed lighting repairs are anticipated to occur mostly in close-in areas; that is to say, lighting systems shown in the plans as Zone 1. If the engineer will issue work orders for undistributed work in Zone 2, he will pay a distance premium at bid unit prices, in addition to paying for the work itself.

6. Traffic Control.

Work on the traveled way, shoulders, and within the clear zones, or any work requiring workers and equipment to access the sites from the main line, shall be allowed only during the hours and under the restrictions of the articles to follow. Perform all such work using short-term closures only, with no full-time traffic control set up. Do not store any equipment or materials within the clear zones past the time that a short-term closure expires.

The engineer may grant exceptions on a case-by-case basis. Under these cases, additional traffic control measures may be required, as directed by the engineer, for no increase in compensation.

The contractor is advised that his request for lane, ramp or shoulder closures, or his request for moving operations, may be denied on the basis of scheduled work (by the same contractor and/or by others) in the same or adjacent segments, or a conflict between inside lane and outside lane work in the same segment, or for other reasons such as unusual traffic patterns, special events, or bad weather.

Do not close two consecutive on or off ramps at the same time, whether through this contract or in conjunction with work by others.

Post any service ramp closure a minimum of three business days in advance.

Post any system ramp closure a minimum of seven calendar days in advance.

To the extent possible, work median lighting in the direction approaching, not departing from, major interchanges such as the Zoo, Stadium, and Mitchell Interchanges.

Installing and removing median light poles will require:

- One lane closure, and one shoulder closure (in the opposite direction), where median shoulders exist.
- Double lane closure, and single lane closure (in the opposite direction), where there are no median shoulders.

Work outside of the clear zones that can be performed by workers and equipment accessing the site from the property side is not restricted by the hours in the articles labeled Traffic Operations.

Work vehicles shall yield to moving traffic, and shall enter and leave live lanes moving only in the direction of traffic.

Advance Notification.

Provide the engineer with a schedule of lane and ramp closures for the following week by noon on Thursday of the previous week. In addition, provide the following minimum advance notification to the engineer for incorporation into the Wisconsin Lane Closure System.

Service Ramp Closures	3 calendar days
System Ramp Closures	7 calendar days
Lane Closures	3 calendar days

Notify the engineer and WisDOT Statewide Traffic Operations Center at (414) 227-2142 if there are any changes in the schedule, early completions, or cancellations of scheduled work.

7. Traffic Meetings and Traffic Control Scheduling.

Every Wednesday by 10:00 AM, submit a detailed proposed 2-week look-ahead traffic closure schedule to the engineer. Type the detailed proposed 2-week look-ahead closure schedule into an excel spreadsheet provided by the engineer. Enter information such as closure dates, duration, work causing the closure and detours to be used. Also enter information such as ongoing long-term closures, emergency contacts and general 2-month look-ahead closure information into the excel spreadsheet.

Meet with the engineer between 11:00 - 11:30 AM on Wednesdays at the Zoo Interchange project office on 2424 S. 102nd Street; West Allis to discuss and answer questions on the proposed schedule. Edit, delete and add closures to the detailed proposed 2-week look-ahead schedule, as directed by the engineer, so that proposed closures meet specification requirements. Other edits, deletions or additions unrelated to meeting specification requirements may also be agreed upon with the engineer during the 11:00 AM meeting.

Every Wednesday at 2:00 PM, or as scheduled by the engineer, attend a weekly traffic meeting. The meeting will bring local agencies, project stakeholders, owner managers, owner engineers, contractors, document control and construction engineering personnel together to discuss traffic staging, closures and general impacts. Upon obtaining feedback from the meeting attendees, edit, delete and add information to the detailed 2-week look-ahead closure schedule, as needed. Submit the revised 2-week look-ahead to the engineer.

Obtain approval from the engineer for any mid-week changes to the closure schedule. Revise the 2-week look-ahead as required and obtain engineer approval.

8. Traffic Operation.

This article covers any operation that will close a freeway lane, a freeway off-ramp, a freeway on-ramp, or a system-to-system ramp, for any amount of time.

Maintain all lanes in all directions and ensure that roadways are entirely clear for traffic during peak hours. A single shoulder closure is allowed between 9:00 AM and 3:00 PM. A single lane closure is allowed during off-peak hours. During night time hours, maintain a minimum of one lane in each direction of the roadway.

Peak, off peak, and night time closure hours are as follows:

Milwaukee County

Weekday Peak Hours

- 5:30 AM – 8:00 PM Monday, Tuesday, Wednesday, and Thursday
- 5:30 AM – 11:00 PM Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

Weekend Peak Hours

- 7:30 AM – 7:00 PM Saturday and Sunday

Weekday Off-Peak Hours

- 8:00 PM – 9:30 PM Monday, Tuesday, Wednesday, and Thursday

Weekend Off-Peak Hours

- 7:00 PM – 11:00 PM Saturday
- 7:00 PM – 9:30 PM Sunday

Night Time Hours

- 9:30 PM – 5:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
- 11:00 PM – 7:30 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

Waukesha County**Peak Hours**

- 5:30 AM – 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 2:00 PM – 7:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

Off-Peak Hours

- 9:00 AM – 2:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday
- 7:00 PM – 9:30 PM Monday, Tuesday, Wednesday, Thursday
- 7:00 PM – 11:00 PM Friday
- 8:00 AM – 10:00 AM Saturday and Sunday
- 7:00 PM – 11:00 PM Saturday
- 7:00 PM – 9:30 PM Sunday

Night Time Hours

- 9:30 PM – 5:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
- 11:00 PM – 8:00 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

Racine/Kenosha County**Peak Hours**

- 5:30 AM – 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 2:00 PM – 7:00 PM Monday, Tuesday, Wednesday, and Thursday
- 12:00 PM – 7:00 PM Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

Off-Peak Hours

- 9:00 AM – 2:00 PM Monday, Tuesday, Wednesday, and Thursday
- 9:00 AM – Noon Friday
- 7:00 PM – 9:30 PM daily
- 8:00 AM – 10:00 AM Saturday and Sunday

Washington County

Peak Hours

Southbound

- 6:00 AM – 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

Northbound

- 3:00 PM – 6:00 PM Monday, Tuesday, Wednesday, and Thursday
- 12:00 PM – 7:00 PM Friday
- 10:00 AM – 7:00 PM Saturday and Sunday

Off-Peak Hours

- 9:00 AM – 2:00 PM Monday, Tuesday, Wednesday, and Thursday
- 7:00 PM – 9:30 PM daily
- 9:00 AM - 12:00 PM Friday
- 8:00 AM – 10:00 AM Saturday and Sunday

Night Time Hours

- 9:30 PM – 5:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
- 9:30 PM – 8:00 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

For all single lane closures on two-lane freeway segments, all two lane closures on three-lane freeway segments, or all ramp closures provide and deploy a portable changeable message sign (CMS), 2.0 miles in advance of the lane closure.

9. Short-Term Shoulder Work or Short Term Sequential Moving Operations.

A single shoulder closure is allowed between 9:00 AM and 3:00 PM.

Shoulder work generally means the parking of vehicles and equipment on the shoulders for short-term operations such as unloading materials or work equipment, or work off the shoulder within the clear zone.

Sequential moving operations include luminaire maintenance, on segments where these operations can be accomplished without lane closures, off-ramp closures, or system-to-system ramp closures.

A sequential moving operation means moving in the direction of traffic along a paved shoulder and setting up equipment and outriggers beyond the traveled way. Brief entrances onto the traveled way, such as moving in the direction of traffic from light pole to light pole via the traveled lanes where necessary, will be allowed.

Only vehicles directly involved in the work may be allowed on the freeways under the time envelopes granted under this article. Personal vehicles of contractor personnel will be prohibited.

A truck-mounted attenuator, paid separately, shall trail sequential moving operations. Shoulder work may require a truck-mounted attenuator, paid separately, as directed by the engineer based on his judgment of the geometrics and traffic conditions of the given segment.

10. Holiday Work Restrictions and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highways carrying traffic and entirely clear the traveled way and shoulders of such portions of the highways of equipment, barricades, signs, lights or any other material which might impede the free flow of traffic during the following periods:

- From noon, Thursday, July 2, 2015 until 6:00 AM Monday, July 6, 2015 for Independence Day;
- From noon, Friday, September 4, 2015 until noon, Tuesday, September 8, 2015 for Labor Day;
- From 12:01 AM Wednesday, November 25, 2015 until 6:00 AM Monday, November 30, 2015 for Thanksgiving;
- From 12:01 AM Friday December 18, 2015 until 6:00 AM Monday, January 4, 2016 for Christmas and New Year's Day.
- Sundays except where night/ weekend work is specifically required.

In Milwaukee County, the following restrictions shall apply:

- For Milwaukee Brewer home games, no lane, shoulder, or ramp closures will be permitted three hours prior to start of game until two hours after completion.
- For Wisconsin Badger Football games at Camp Randall, no lane closure are permitted on westbound IH-94 from four hours prior to the kickoff, and no lane closures are permitted on eastbound IH-94 from the time the game ends until four hours following.
- During Summerfest, no lane, shoulder or ramp closure will be permitted.
- During Wisconsin State Fair, no lane, shoulder or ramp closure will be permitted.

11. Utilities.

This contract comes under the provisions of Administrative Rule TRANS 220.

There are no known utility facilities that would conflict with construction operations. Should a conflict arise, coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities which have facilities in the area as required per statutes.

12. Traffic.

Append standard spec 643 as follows:

Aerial Service Vehicles

Equip lift trucks and similar electrical construction vehicles with two or more high-intensity yellow rotating beacons clearly visible to the rear and sides, but not to the front of the vehicle (exception: surface highways with traffic approaching the truck from the front). Mount these beacons as high on the truck as possible. In lieu of rotating beams, the contractor may, subject to the approval of the engineer, use fixed flashing beams of equivalent visual impact as the rotating beams.

Channelization Devices

For daytime work only, the contractor may use 36-inch traffic cones of fluorescent orange color instead of traffic control drums. Such cones shall have a weighted base designed and manufactured specifically for the cones furnished. Cones will not be measured for payment, but shall be considered an incidental item paid as electrical or traffic control work.

13. Erosion Control

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering in accordance to Chapter TRANS 401 requirements. The erosion control implementation plan shall supplement information shown on the plans and shall not reproduce it. The erosion control implementation plan will identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to WisDOT and 1 copy of the ECIP to the WDNR Liaison, Mr. Michael Thompson at 141 NW Barstow Street, Waukesha, WI 53187. Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Re-topsoil of graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed.

When performing roadway cleaning operations, the contractor shall use equipment having vacuum or water spray mechanism to eliminate the dispersion of dust. If vacuum equipment is employed, it shall have suitable self-contained particulate collectors to prevent discharge from the collection bin into the atmosphere.

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil shall be protected against erosion. If stockpiled material is left for more than 14 calendar days, seed the stockpile with temporary seed.

Erosion control BMP's are at suggested locations. The actual locations will be determined by the contractors ECIP and by the engineer. Erosion Control BMP's shall be maintained until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

Erosion control shall be incidental to any and all applicable items in this project, which could include, but not necessarily be limited to, items that involve ground disturbance.

14. Personnel Qualifications.

Add the following to standard spec 651.3.2:

Each luminaire maintenance crew shall include at least one person stated as qualified to perform electrical work per standard spec 651.3(1).

15. Group Luminaire Maintenance Quantities.

Group luminaire maintenance quantities are based on nominal mounting heights typical for the type of pole. Actual mounting heights vary, along with other conditions that will reflect in the labor and equipment costs. These pay items cannot possibly take into account the range of conditions in the field. The contractor shall prepare his estimate accordingly.

The plan quantities of luminaires are approximate. The engineer may delete reasonable quantities of luminaires that have been serviced by others in the months leading up to the start of work. The engineer may add reasonable quantities of work, provided that the increased work will not materially affect the contractor's expenses in traffic control, down time, or travel expenses. For the purposes of standard spec 104.2.2.4, all the Luminaire Maintenance items taken as an aggregate shall be considered a major item.

Due to changing department practice, 100-watt, 200-watt, and 310-watt utility luminaires are being changed out in favor of 150-watt, 250-watt, and 400-watt luminaires respectively. Changes in the field are not necessarily reflected in records that will be conveyed to the contractor. Contractor is directed to stock extra 150-watt, 250-watt, and 400-watt lamps, compared to plan quantities, and he will be directed to read the NEMA lamp label at each location. Payment will be made on the basis of the lamp sized actually used.

16. Highway Lighting Systems.

General

All work must conform to the department's standard specifications except as listed in the sections that follow.

Transfer of Existing Highway Signs

Existing light poles that the contractor is to remove may have traffic signs attached. Remove existing signs and leave them on the site, or else return them to the department at 935 South 60th Street, West Allis, as directed by Mr. Dennis Newton, (414) 266-1165, the department's signing and marking coordinator. This work will be incidental to the paid removal of the poles. Communicate the work schedule to Mr. Newton, and coordinate construction/maintenance operations with state sign crews. Mr. Newton will arrange for the reinstallation of old signs, or their replacement, at no cost to the contractor.

Wet Location Splices

Modify standard spec 655.3.1 as follows:

Wet location splices may be allowed only where it is the best available location to connect new work to existing work, as approved by the engineer. Make wet location splices with an approved epoxy kit.

Branch Circuit Tagouts

Any circuit that the contractor does not personally tag out at the disconnect shall be considered live, and will be subject to being activated by another person with no notice to the contractor. Make tagouts with manufactured tags, and endorse them with the date and the name of the contractor. Clear tagouts at the end of the workday.

Shop Locations

Pick up and haul materials indicated as department-furnished from one of the locations listed below, as directed by Mr. Michael Prebish, (414) 266-1170. Materials indicated to be returned to the department shall be hauled to one of these locations, as directed by Mr. Prebish. Arrange pickups and deliveries in advance and during regular business hours.

- State Electrical Shop, 935 South 60th Street, West Allis
- Milwaukee County Grounds, 10191 West Watertown Plank Road, Wauwatosa

Highmast Lighting Lowering Device

Contact Mr. Stanley Jackson, (414-275-6593), Stanley.Jackson@milwcnty.com for information concerning highmast lighting and lowering device. Arrange pickup and drop-off of lowering device in advance during regular business hours.

- Milwaukee County Grounds, 10191 West Watertown Plank Road, Wauwatosa

Corrosion Protection

Corrosion protection measures described in standard specs 657.3.1 and 657.3.5 are invoked for breakaway transformer bases and aluminum light poles.

Non-Breakaway Light Poles

At non-breakaway locations, the double-nutting of poles and the installation of galvanized rat screens are required, and both shall be considered incidental to the paid items of work. (Rat screens will be paid for high mast maintenance only.)

Pole Plaques - Median Mount Light Poles

The standard detail drawing for light poles plaques is modified as follows: The note stating that the plaque height is to be adjusted for traffic signs is to be interpreted as follows: The mounting height shall be four feet above the pavement, to allow for tenth-mile marker signs above.

17. Inspection.

Inspection of existing light poles that is required and is incidental to paid items under this contract does not transfer responsibility for their condition from the department to the contractor. The contractor will not be held responsible for the condition of any existing light pole or associated installation, or for the consequences of a failure.

18. Pole Wire and Fusing.

Fusing shall be incidental to new pole wire, paid as Electrical Wire Lighting 12 AWG. The contract also includes fusing items for maintenance of existing light poles.

19. Truck or Trailer-Mounted Attenuator, Item 643.1055.S.**A Description**

- (1) This special provision describes protecting work operations with a truck or trailer-mounted attenuator (TMA).

B Materials

- (1) Furnish and maintain a TMA conforming to NCHRP Report 350 test level 3 or to MASH crashworthiness criteria. Submit written certification from the manufacturer that the host vehicle/attenuator configuration provided conforms to crashworthiness criteria. Include the federal-aid reimbursement eligibility letter with that submittal.

- (2) Provide a host vehicle and mount the attenuator conforming to the attenuator manufacturer's specifications. Provide the engineer a copy of the manufacturer's specifications and installation instructions.

C Construction

- (1) Coordinate with the engineer at least 72 hours before its intended use so the engineer can determine if the work operation requires TMA protection.
- (2) Position the attenuator at a manufacturer-recommended location in advance of a stationary work operation. Position and maintain the attenuator consistently at the manufacturer-recommended distance from a mobile work operation. Ensure that an operator stays with the host vehicle while protecting a mobile work operation.

D Measurement

- (1) The department will measure Truck or Truck-Trailer-Mounted Attenuator by the day, acceptably completed, measured to the 1/2-day based on the engineer-determined time the attenuator is required to protect work operations. The department will measure 4 or less hours per calendar day as a half day and over 4 hours as a full day.

E Payment

- (1) The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
643.1055.S	Truck or Trailer-Mounted Attenuator	DAY

- (2) Payment is full compensation for providing the portable attenuator, host vehicle, and operator.
643-015 (20140630)

20. Zone 2 Distance Premium, Item SPV.0045.02.

A Description

Mobilize crews and equipment for undistributed repairs at outlying lighting installations, as shown in the list of distribution centers in the plans. Payment will be in addition to the compensation for the construction itself.

B (Vacant)

C (Vacant)

D Measurement

The department will pay Zone 2 Distance Premium by the day that a crew is required to move beyond Zone 1. Payment is based on a two-person crew with two vehicles working at least 4 hours in one calendar day on site, travel time excluded. For three persons, the department will measure two crews; for five persons, three crews, etc.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.02	Zone 2 Distance Premium	Day

Payment is full compensation for the added cost of one or two workers, and their vehicles, working at distant locations as shown in the plans.

21. Lamp Disposal High Intensity Discharge, Item SPV.0060.01.

A Description

This special provision describes packaging, palletizing, and returning HID (metal halide; mercury vapor and high-pressure sodium) lamps removed under this contract to the department at the South 60th Street, West Allis, location.

B (Vacant)

C Construction

Lamps that the contractor turns in to the department will be considered the property of the department for proper future disposal. The contractor will have no further obligation for their disposal. The department will reject improperly packaged lamps.

Deliveries to the department shall be prearranged. Deliveries shall be consolidated into a truckload or more, except that where all the lamps removed under a contract measure less than a truckload, all shall be delivered as one load at one time.

Pack intact lamps in the packaging of the new lamps used to replace the old lamps, or packaging affording the equivalent protection. Deliver in full, closed, stackable cartons with the name of the contractor, the number and type/ wattage of lamps clearly written on each carton.

Pack broken lamps into minimum 6 mil plastic bags, which in turn shall be placed inside sturdy cardboard boxes or the equivalent, with the number of lamps clearly marked on each box. Mark the outer packaging "broken lamps". The department will reject metal containers.

Deliver all broken lamps, as noted above. The department will not pay broken lamps above a level of ten percent of the total number in the contract. Deliver broken lamps above the ten percent level to the department for no compensation.

If palletized, cartons shall be piled no more than two high and shall be secured with shrink-wrap to prevent shifting or falling loads. Label the pallets by the number and type/ wattage of lamps, and the name of the contractor.

The department will reject any lamps not removed as part of a contract pay item or otherwise required under this contract.

D Measurement

The department will measure Lamp Disposal High Intensity Discharge by each individual unit, acceptably completed. This payment will be in addition to payment for the work under which the lamps are removed from service.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Lamp Disposal High Intensity Discharge	Each

Payment is full compensation for packaging, palletizing and delivering lamps without breakage.

22. Light Tower Rat Screens, Item SPV.0060.02.**A Description**

Furnish and install light tower rat screens and clean debris.

B Materials

Construct rat screens of an approved galvanized steel mesh material. Secure to the base plate with stainless banding, additionally secured with stainless screws into the base plate.

C Construction

Remove any existing rat screens and dispose of them off the site. Clean the base area of any foreign material or debris prior to installing the new rat screen.

D Measurement

The department will measure Light Tower Rat Screens by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Light Tower Rate Screens	Each

Payment is full compensation for furnishing and installing rat screens; cleaning the site; and for properly disposing of old materials.

23. Removing Luminaires, Item SPV.0060.03; Removing Lighting Units, Item SPV.0060.04.**A Description**

Remove existing luminaires or lighting units. A lighting unit is defined as the luminaire(s), luminaire arm(s), pole (30- through 50-foot), and breakaway feature. Splicing through the

circuit for continued operation, where required, and hauling of salvaged materials back to the department, will be a part of this item.

B (Vacant)

C Construction

Haul aluminum poles, breakaway transformer bases, and luminaire arms in good condition, back to the department. Disassemble to constituent parts: poles, transformer bases, arms, and luminaries. Reattach breakaway base doors to breakaway bases. The department will pay lamp disposal under a separate item of work. Unless otherwise directed by the engineer, dispose of other materials off the site, including all steel materials and aluminum materials of scrap value only.

D Measurement

The department will measure Removing Luminaires and Removing Lighting Units by each individual unit, acceptably completed. The department will deduct measurement in cases where usable materials, as determined in advance by the engineer, are damaged during removal or haul.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Removing Luminaires	Each
SPV.0060.04	Removing Lighting Units	Each

Payment is full compensation for removing, hauling, and properly disposing of materials.

24. Fuse Holders, Item SPV.0060.05; Fuses Type FNQ, Item SPV.0060.06.

A Description

This special provision describes luminaire fusing to be performed as an adjunct to luminaire maintenance, for separate payment, or as otherwise directed by the engineer. Determine if fuses need replacement. If so, install. Also determine if fuse holders need replacement. No measurement will be made if fuses and fuse holders are installed as a part of the bid item for pole wire, bid item Electrical Wire Lighting 12 AWG. Perform this work in accordance to the pertinent provisions of standard spec 659 and as hereinafter provided.

B (Vacant)

C Construction

Use construction methods in conformance to standard spec 659.3.2. This subsection also covers materials requirements.

D Materials

The department will measure Fuse Holders and Fuses Type FNQ by each individual unit, acceptably completed. Both items will be measured in cases where both are replaced.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Fuse Holders	Each
SPV.0060.06	Fuses Type FNQ	Each

Payment is full compensation for installing the materials; troubleshooting or inspecting to determine if fuses or fuse holders are necessary.

25. Installing State-Furnished Luminaires Utility HPS, Item SPV.0060.07.**A Description**

All luminaires must be picked up and installed by the contractor. The term luminaires includes utility, underdeck, sign, and tunnel luminaires.

B Materials

Furnish HPS lamps for department-furnished luminaires.

C Construction

Install luminaires in accordance to standard specs 659.3.3 and 659.3.4.

D Measurement

The department will measure Installing State-Furnished Luminaires by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Installing State-Furnished Luminaires Utility HPS	Each

Payment is full compensation for hauling and installing the luminaire; for furnishing and installing the lamp.

26. Installing State-Furnished Lighting Units, Item SPV.0060.08.**A Description**

Haul and install lighting units, including, as required per site, breakaway transformer base, pole and arm(s). The department will measure pole wire and department-furnished luminaires under separate items. Lighting units of 30, 40 and 50 feet nominal height will all be covered on the same basis under this bid item.

B (Vacant)

C Construction

Install materials in conformance to standard specs 657.3.1, 657.3.3, and 657.3.5.

D Measurement

The department will measure Installing State-Furnished Lighting Units by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Installing State-Furnished Lighting Units	Each

Payment is full compensation for hauling and installing the breakaway base, pole and arm(s).

27. Plumbing Light Poles, Item SPV.0060.09.**A Description**

Shim and plumb light poles. Do this work in conjunction with luminaire maintenance activities at the same locations.

B Materials

Use shims approved by the engineer.

C Construction

Perform the work in accordance to standard spec 657.3.1.

D Measurement

The department will measure Plumbing Light Poles by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Plumbing Light Poles	Each

Payment is full compensation for inspecting for plumb as a part of luminaire maintenance activity; plumbing as needed; and for furnishing and installing all materials.

28. Distribution Center Preventive Maintenance, Item SPV.0060.10.

A Description

This special provision describes maintaining lighting cabinets and the site, including inspecting, cleaning, testing, adjusting, and keeping records. Major repairs or component replacement will not be included.

B Materials

Furnish materials such as primer, paint, lubrication, antiseize, electrical cleaning solvents, incandescent lamps, warning decals, small parts, and connectors. All items shall be suitable for electrical maintenance, as approved by the engineer. The department will furnish padlocks and WisDOT decals.

C Construction

Perform the following tasks:

- Apply department-furnished WisDOT decals as needed to cabinets and to remote meters.
- Apply standard ANSI voltage warning decals (text varies by location; in most cases, “Warning 480 Volts”) where needed to cabinets and to remote meters. These will be measured separately as Plaques Sequence Identification, generally 2 units per cabinet.
- Apply cabinet plaques where needed. These will be measured separately as Plaques Sequence Identification, generally 2 or 3 units per cabinet. Engineer to supply text.
- Spot prime and spot paint inside and out as needed, in colors to match the existing surfaces.
- Test the photo control circuit and other 120 VAC apparatus for proper function.
- Replace the incandescent lamp as necessary.
- Inspect all electrical components, including conductors. Inform the engineer of all reportable conditions.
- Tighten and otherwise make good all electrical connections, including grounding connections.
- Remove debris, animal nests, the accumulation of dirt, etc., from inside and near the cabinet.
- Trim weeds, saplings, and brush a reasonable distance around, including a sufficient distance to ensure access to the meter, the fence gate, the cabinet door, We Energies transformer (hot stick side) and the first pull box off the cabinet.
- Inspect the fence gate and its padlocks. Trim saplings that interfere with gate function.
- Wipe the photocell clean.
- In general, short of replacing any component or making any repair beyond these requirements, leave behind a clean, orderly and functioning cabinet, fence gate and site.

D Measurement

The department will measure Distribution Center Preventive Maintenance by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Distribution Center Preventive Maintenance	Each

Payment is full compensation for the required maintenance and adjustment of the distribution center, as well as recording and forwarding all reportable conditions.

- 29. Group Luminaire Maintenance Underdeck 70W HPS, Item SPV.0060.11; Underdeck 100W HPS, Item SPV.0060.12; Sign Light 175W HPS, Item 0060.13; Sign Light 250W HPS, Item SPV.0060.14; Probeam 150W HPS, Item SPV.0060.15; 20-Foot 150W HPS, Item SPV.0060.16; 20-Foot 400W HPS, Item SPV.0060.17; 30-Foot 100W HPS, Item SPV.0060.18; 30-Foot 150W HPS, Item SPV.0060.19; 30-Foot 200W HPS, Item SPV.0060.20; 30-Foot 250W HPS, Item SPV.0060.21; 40-Foot 100W HPS, Item SPV.0060.22; 40-Foot 150W HPS, Item SPV.0060.23; 40-Foot 200W HPS, Item SPV.0060.24; 40-Foot 250W HPS, Item SPV.0060.25; 40-Foot 310W HPS, Item SPV.0060.26; 50-Foot 250W HPS, Item SPV.0060.27; 50-Foot 310W HPS, Item SPV.0060.28; 50-Foot 400W HPS, Item SPV.0060.29.**

A Description

This special provision describes luminaire maintenance, generally on a sequential basis. At the same locations, inspect light poles and troubleshoot nonfunctioning luminaires. Report problems to the engineer, or repair for payment under separate items of work, as directed by the engineer. Perform work according to standard spec 659.

B Materials

Append standard spec 659.2.1.1(2) as follows:

250-watt mercury vapor lamps shall be deluxe white; 175-watt mercury vapor lamps shall be clear.

C Construction

Append standard spec 659.3 with the following:

C.1 Location Plans

At the preconstruction conference, the department will furnish detailed location maps illustrating the location, lamp type and wattage, pole height, and other information regarding the work under this item.

C.2 Inspection, Limited Testing and Troubleshooting

Record any obvious pole damage, structural weakness, electrical malfunction, electrical hazards, and other potential problems with the existing installation that are encountered, and convey such information to the engineer at the end of the work day. Replace blown fuses for separate payment. Replace nonfunctioning luminaires with state-furnished materials, for separate payment, and furnish and install a lamp. When outages for which the repair is beyond the scope of this contract are encountered, convey this information in writing to the engineer. This will complete the contractor's work for inspection and troubleshooting at that location. Thereafter, the lamp (only) will be required to operate for 20 consecutive nights without failure. Replace each lamp that fails; that lamp shall again be subjected to a 20 consecutive night test. **Exception:** At his option, the engineer may waive the 20-day prove-in period, location-by-location, in cases where he does not wish to pay the cost of traffic control, or where he judges that the public inconvenience of closed lanes or ramps would not be justified.

C.3 Lamp Identification

Some luminaires lack NEMA lamp identification stickers. Instead, a color patch on the sequence plaque on the pole shaft identifies the lamp types and wattages. Pole plaques are in many cases outdated and inaccurate. The color patch code is shown in the plans. Where the NEMA label and the pole plaque conflict, follow the NEMA label.

C.4 Sign Bridge Lighting

Access to most overhead sign lighting installations can be accomplished without closing freeway lanes, since these overhead sign structures span the mainline freeway roadways and can be serviced from aerial walkways. Median mounted signs on single pole sign supports in some cases are not accessible for servicing without lane closures. Lane closures for these locations shall conform to the bid items for Traffic Control in these special provisions, except the use of standard traffic delineation and a standard sign is required in addition to the use of the arrow flasher board.

C.5 Cleaning and Relamping – Other Incidental Work

Level and aim each luminaire that is of a type that can be leveled or aimed. Clean the optical surfaces, consisting of the reflector and both sides of the lens or refractor, with a detergent solution and two rinses. Lightly wipe with a damp chamois to remove dirt film, and polish with a non-abrasive compound free of wax or silicone, leaving the reflector bright.

In lieu of the manual cleaning process, an automatic washer designed specifically for the cleaning of refractors or lenses may be used, provided that, in the judgment of the engineer, it produces a final cleaning result equal to the washing process described above.

Throughout the cleaning process, keep the gasket dry.

D Measurement

The department will measure Group Luminaire Maintenance (Various) by each individual unit, acceptably completed. Two units of work will be measured on twin lighting units.

E Payment

The department will pay for the measured quantities under the following bid items:

ITEM	DESCRIPTION	UNIT
SPV.0060.11	Group Luminaire Maintenance Underdeck 70W HPS	Each
SPV.0060.12	Group Luminaire Maintenance Underdeck 100W HPS	Each
SPV.0060.13	Group Luminaire Maintenance Sign Light 175W HPS	Each
SPV.0060.14	Group Luminaire Maintenance Sign Light 250W HPS	Each
SPV.0060.15	Group Luminaire Maintenance Probeam 150W HPS	Each
SPV.0060.16	Group Luminaire Maintenance 20-Foot 150W HPS	Each
SPV.0060.17	Group Luminaire Maintenance 20-Foot 400W HPS	Each
SPV.0060.18	Group Luminaire Maintenance 30-Foot 100W HPS	Each
SPV.0060.19	Group Luminaire Maintenance 30-Foot 150W HPS	Each
SPV.0060.20	Group Luminaire Maintenance 30-Foot 200W HPS	Each
SPV.0060.21	Group Luminaire Maintenance 30-Foot 250W HPS	Each
SPV.0060.22	Group Luminaire Maintenance 40-Foot 100W HPS	Each
SPV.0060.23	Group Luminaire Maintenance 40-Foot 150W HPS	Each
SPV.0060.24	Group Luminaire Maintenance 40-Foot 200W HPS	Each
SPV.0060.25	Group Luminaire Maintenance 40-Foot 250W HPS	Each
SPV.0060.26	Group Luminaire Maintenance 40-Foot 310W HPS	Each
SPV.0060.27	Group Luminaire Maintenance 50-Foot 250W HPS	Each
SPV.0060.28	Group Luminaire Maintenance 50-Foot 310W HPS	Each
SPV.0060.29	Group Luminaire Maintenance 50-Foot 400W HPS	Each

Payment is full compensation for cleaning and relamping; making for incidental repairs; inspecting and troubleshooting; and for conformance to the limited 20-night prove-in period as described above.

30. Tunnel Luminaire Maintenance 150 Watt HPS, Item SPV.0060.30; 200 Watt HPS, Item SPV.0060.31; 250 Watt HPS, Item SPV.0060.32, 400 Watt HPS, Item SPV.0060.33.

A Description

This special provision describes the maintenance of tunnel luminaires. At the same locations, inspect the installation and troubleshoot nonfunctioning luminaires. Report problems to the engineer, or repair for payment under separate items of work, as directed by the engineer. All work must conform to the department's standard specifications except as listed in the sections that follow. Perform work according to standard spec 659.

B Materials

Provide materials conforming to standard spec 659.2.1.1(2).

C Construction

Append standard spec 659.3 with the following:

(1) **Which Luminaires.** Clean and relamp luminaires whose lamps have failed or are on the obvious verge of failure. Else, clean only under a separate pay item.

(2) **Inspection, Limited Testing and Troubleshooting.**

Record any obvious damage, electrical malfunction, electrical hazards, and other potential problems with the existing installation, that are encountered, and convey such information to the engineer at the end of the work day. Replace blown fuses for separate payment. Replace nonfunctioning luminaires with state-furnished materials, for separate payment, and furnish and install a lamp. When outages for which the repair is beyond the scope of this contract are encountered, convey this information in writing to the engineer. This will complete the contractor's work for inspection and troubleshooting at that location. Demonstrate the function of lamps at the end of the closure period for that lane or tunnel. Thereafter, the twenty-day prove-in period will be waived.

(3) **Cleaning and Relamping; Other Incidental Work.**

Level and aim each luminaire that is of a type that can be leveled or aimed. Clean the optical surfaces, consisting of the reflector and both sides of the lens or refractor, with a detergent solution and two rinses. Lightly wipe with a damp chamois to remove dirt film, and polish with a non-abrasive compound free of wax or silicone, leaving the reflector bright.

In lieu of the manual cleaning process, an automatic washer designed specifically for the cleaning of refractors or lenses may be used, provided that, in the judgment of the engineer, it produces a final cleaning result equal to the washing process described above.

Throughout the cleaning process, keep the gasket dry.

D Measurement

The department will measure Tunnel Luminaire Maintenance (Various) by the unit, completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	Tunnel Luminaire Maintenance 150 Watt HPS	Each
SPV.0060.31	Tunnel Luminaire Maintenance 200 Watt HPS	Each
SPV.0060.32	Tunnel Luminaire Maintenance 250 Watt HPS	Each
SPV.0060.33	Tunnel Luminaire Maintenance 400 Watt HPS	Each

Payment is full compensation for performing maintenance and providing materials.

31. Group Clean Tunnel Luminaires, Item SPV.0060.034

A Description

This special provision describes cleaning tunnel luminaires not requiring relamping.

B (Vacant)

C Construction

Level and aim each luminaire that is of a type that can be leveled or aimed. Clean the optical surfaces, consisting of the reflector and both sides of the lens or refractor, with a detergent solution and two rinses. Lightly wipe with a damp chamois to remove dirt film, and polish with a non-abrasive compound free of wax or silicone, leaving the reflector bright.

In lieu of the manual cleaning process, an automatic washer designed specifically for the cleaning of refractors or lenses may be used, provided that, in the judgment of the engineer, it produces a final cleaning result equal to the washing process described above.

Throughout the cleaning process, keep the gasket dry.

D Measurement

The department will measure Group Clean Tunnel Luminaires by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.34	Group Clean Tunnel Luminaires	Each

Payment is full compensation for performing all required work

32. Luminaire Probeam LED, Item SPV.0060.35.

A Description

The work under this item consists of installing Luminaire Probeam LED luminaires at locations specified in plans, in accordance to plan details, the applicable portions of standard spec 659, and as hereinafter provided.

B Materials

Probeam LED luminaires shall be outdoor lighting suitable for wet locations up to 40°C ambient temperature. Electrical housing shall be IP65 rated. All hardware shall be stainless steel. Units shall be UL listed for wet locations. Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Units shall be utility gray in color.

Example luminaire shall be available for evaluation for up to two weeks time. Furnish the following list of specific documentation detailing the characteristics of the LED luminaire:

- Fixture IES files (.ies format) for illumination modeling
- Cut sheets, warranty information and parts list for all equipment.
- Luminaire heat dissipation techniques.
- Energy usage information.
- Color spectrum with HID lamp comparison.
- Optical design features.

Do not order materials until the engineer approves the list.

B.2 Luminaire

Furnish LED luminaires with a slim, low profile design that minimizes wind loading. Luminaires shall be constructed of rugged cast and extruded aluminum with integral, weather-tight LED driver components with high performance aluminum heat-sinks. Each luminaire shall use a terminal block for power input suitable for #2 to #14 AWG wire. Luminaires shall be installed and mounted on the existing mast arm mounting plate as shown in the plans.

B.2.1 Electronic Components

Luminaire shall accommodate varied lighting output from high brightness, 4000K (+/- 500K per full unit), minimum 70 CRI, long life LED sources. Drivers shall operate across 120-277V, 50/60 Hertz as standard. LED drivers shall have a power factor greater than 90% and THD less than 20% of full load. All luminaires shall come equipped with an integral surge suppression protection standard.

B.2.2 Optical / Illumination Performance

Luminaire shall conform to the following:

- Luminaire tested and certified by an independent test laboratory to meet the photometric performance criteria established by IESNA LM-79.
- Luminaire shall deliver approximately 12,000 lumens and be rated to consume no more than 175 watts (+/- 15%) while operating for a minimum of 70,000 hours (+/- 10%).
- Luminaire shall have 6 x 6 or 6 x 7 light distribution.

B.2.3 Finish

The luminaire fixture finish shall feature an epoxy primer with an ultra-durable silver powder topcoat, providing resistance to corrosion, ultraviolet degradation and abrasion. Alternative equivalent finishes shall be approved by the engineer.

B.2.4 Ratings / Certifications

Luminaires shall be rated and/or certified as follows:

- U.L. listed for wet locations
- RoHS compliant for lead and mercury standards
- IP-65 minimum weather fastness rating

C Construction

Conform to the applicable requirements of standard spec 659.3.

D Measurement

The department will measure Luminaire Probeam LED by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.35	Luminaire Probeam LED	Each

Payment is full compensation for furnishing and installing all materials including the luminaires, wiring, and fusing.

33. Luminaires Highmast Lighting LED, Item SPV.0060.36.

A Description

This special provision describes furnishing and installing Luminaires Highmast Lighting LED equipped with roadway lighting remote control and monitoring equipment.

B Materials

Furnish Luminaires, highmast tower, LED meeting or exceeding performance requirements specified in herewith. Luminaires shall conform to applicable portions of standard spec 659.2.2, amendments mentioned in Freeway Lighting Systems special provisions and the WisDOT Specifications for LED Roadway Luminaires. The luminaire housing shall be low copper content aluminum with factory finished durable corrosion and UV resistant gray electrostatically applied thermoset powder-coat which shall be tested in accordance to ANSI B117. Housing access shall be tool-free. The luminaire/ring mounting configuration shall fit the specified highmast tower ring fitter being used per the plan. The luminaire shall be UL listed, IP 66 rated and RoHS compliant for lead and mercury standards.

Furnish quick disconnect connectors for ease of installation and maintenance. The luminaire shall be equipped with 10K surge protection device. Surge protection shall be tested in accordance to ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 scenario 1 category C high exposure 10KV/10KA waveforms.

LED lamps shall be in the 4000K color temperature range with a minimum of 70 CRI. Luminaire shall utilize high brightness LED. The lumen depreciation at 50,000 hours shall not be exceeding 10% of initial. Luminaire shall provide NEMA decal stating "LED-Wattage-Distribution Type". There shall be a sticker placed on the bottom of the luminaire to clearly identify the WisDOT Luminaire type and size. The sticker should be visible from a person standing on the ground and is incidental to the luminaire.

The luminaire shall be equipped with a voltage-sensing LED driver, to accommodate 120-277V with 90% power factor and THD 20% max at full load. Surge protection shall be provided and tested in accordance to the specifications. The luminaire shall also be equipped with a quick-disconnect plug for connecting the pole riser wires to the terminal block. A strain relief shall retain the pole riser wires within the luminaire. LED driver shall be a Zitanium Continuous Lumen Output (CLO) driver. Each luminaire shall be furnished with an ANSI C136.10 compliant, locking type, photo control receptacle. A rain tight shorting cap shall be provided and installed.

The acceptable luminaire shall be equivalent to 400 Watt high pressure sodium.

Furnish shop drawings as specified in standard spec 506.3.2, except submit five copies with the materials list. Ensure the drawings contain sufficient details including but limited to luminaire catalog cuts, two references from government or semi-government agencies currently using the same luminaires, dimming features, luminaire IES distribution, LED driver catalog, Surge Protector catalog, isofootcandle chart with maximum candela point and half candela trace isocandela diagram, number of LEDs, Initial lumens, Lumen depreciation at 50,000 hours, L70 hours, System Wattage at 240V, and IES files on disc to allow satisfactory review and show the dimensions of all equipment shown in the plans.

Contractor shall not order materials until the engineer approves.

C Construction

Under the bid item Luminaires highmast lighting LED, furnish and install luminaires and all necessary miscellaneous accessories and hardware to complete the installation of the luminaires.

The contractor shall follow manufacturer's instructions regarding luminaire installation.

Three single-conductor No. 12 stranded wires shall be used to connect the luminaires to their respective branch conductors in the pole base or in the adjacent junction box. Each luminaire feeder wire shall be protected by one 5-amp KTK fuse. Fuses and fuse holders shall be as per the details in the Plan. The wires shall be paid separately.

All exposed threaded equipment mounting hardware shall be stainless steel. The contractor shall coat all threaded stainless steel hardware and dissimilar metal, threaded hardware with an approved zinc-based anti-seize compound (Loctite or Jet-Lube prior to assembly).

The vibration testing, warranty, and submittals shall be done for highmast tower LED luminaires in accordance to the requirements mentioned in Freeway Lighting System special provision. The independent testing shall be performed in accordance to the requirements mentioned in Freeway Lighting System special provision for highmast tower LED luminaire even for less than 30 luminaires of the same type.

The contractor is responsible to deliver spare luminaires after all the testing as approved by the engineer at one of the department's facilities as directed by the engineer.

D Measurement

The department will measure Luminaires Highmast Lighting LED as each individual lighting unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.36	Luminaires Highmast Lighting LED	Each

Payment is full compensation for furnishing and installing all materials, including luminaire, remote control monitoring node, dimming device, delivering spare luminaire, accessories, hardware and fittings necessary to install the luminaire fully operational.

34. Installing State-Furnished Cable In Duct, Item SPV.0090.01; Median Cable In Duct, Item SPV.0090.02.

A Description

This special provision describes hauling and installing cable in duct. All sizes typically used on the freeway system shall be installed at the same unit price.

B Materials

Return reel overages to the department. Depending on availability of materials, the contractor may be required to fish department-furnished Type USE wires into empty duct.

C Construction

Install cable in duct in accordance to standard spec 655.3.2. For median cable in duct, conform to the following additional requirement: Install in the space between concrete median barriers. Place on top of the granular fill material at the base of the median barriers without covering the polyethylene duct. Route adjacent to the back of one of the median barrier sections. Hold the duct in place against the barrier by use of steel rods (no. 4 rebar or equivalent) approximately one foot in length driven into the gravel fill such that a 3-inch section of the rod protrudes from the gravel. Place rods at 30-foot intervals.

D Measurement

The department will measure Installing State-Furnished Cable In Duct and Installing State-Furnished Median Cable In Duct in accordance to standard spec 655.4(1).

E Payment

The department will pay for measured quantities at the contract unit prices under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Installing State-Furnished Cable In Duct	LF
SPV.0090.02	Installing State-Furnished Median Cable In Duct	LF

Payment is full compensation for hauling and installing cable in duct.

35. Removing Median Cable In Duct, Item SPV.0090.03.**A Description**

This special provision describes removing median cable in duct. Do the work in conjunction with the installation of state-furnished cable in duct.

B (Vacant)**C Construction**

Dispose of all materials off the site.

D Measurement

The department will measure Removing Median Cable In Duct in accordance to standard spec 655.4(1).

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Removing Median Cable In Duct	LF

Payment is full compensation for removal and disposal of cable in duct.

36. Removing Temporary Overhead Lines, Item SPV.0090.04.**A Description**

This special provision describes removing temporary overhead lighting lines. Do the work in conjunction with the installation of state-furnished cable in duct.

B (Vacant)**C Construction**

Coil removed conductors and return to the department.

D Measurement

The department will measure Removing Temporary Overhead Lines by the linear foot, removed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Removing Temporary Overhead Lines	LF

Payment is full compensation for removal of conductors and returning them to the department; and for removing temporary overhead lines.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6**ASP 6 - Modifications to the standard specifications**

Make the following revisions to the standard specifications:

450.3.2.1 General

Replace the entire text with the following effective with the January 2015 letting:

- (1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 36 F for upper layers or 32 F for lower layers unless the engineer allows in writing. The contractor should place HMA pavement for projects on or north of STH 29 between May 1 and October 15 inclusive and for projects south of STH 29 between April 15 and November 1 inclusive. Notify the engineer at least one business day before paving.
 - (2) Unless the contract specifies otherwise, conform to the following:
 - Keep the road open to all traffic during construction.
 - Prepare the existing foundation for treatment as specified in 211.
 - Incorporate loose roadbed aggregate as a part of preparing the foundation, in shoulder construction, or dispose of as the engineer approves.
 - (3) Place asphaltic mixture only on a prepared, firm, and compacted base, foundation layer, or existing pavement substantially surface-dry and free of loose and foreign material. Do not place over frozen subgrade or base, or where the roadbed is unstable.
-

450.5 Payment

Replace the entire text with the following effective with the May 2015 letting:

- (1) All costs of furnishing, maintaining, and operating the truck scale or other weighing equipment and furnishing the weigh tickets are incidental to the contract.
 - (2) Nonconforming material allowed to remain in place is subject to price adjustment under 105.3.2.
 - (3) Full-depth sawing to remove integrally placed safety edge where not required is incidental to the contract.
 - (4) The contractor is responsible for the quality of HMA pavement placed in cold weather. If because of an excusable compensable delay under 108.10.3, the engineer directs the contractor to pave when the temperature is less than 36 F for the upper layer or less than 32 F for lower layers, the department:
 - Will relieve the contractor of responsibility for damage and defects the engineer attributes to cold weather paving.
 - Will not assess disincentives for density or ride.
-

455.3.2.1 General

Replace the paragraphs one and two with the following effective with the January 2015 letting:

- (1) Apply tack coat only when the air temperature is 32 F or more unless the engineer approves otherwise in writing. Before applying tack coat ensure that the surface is dry and reasonably free of loose dirt, dust, or other foreign matter. Do not apply if weather or surface conditions are unfavorable or before impending rains.
- (2) Use tack material of the type and grade the contract specifies. The contractor may, with the engineer's approval, dilute tack material as allowed under 455.2.4. Provide calculations using the asphalt content as-received from the supplier and subsequent contractor dilutions to show that as-placed material has 50 percent or more residual asphalt content. Apply at 0.050 to 0.070 gallons per square yard, after dilution, unless the contract designates otherwise. The engineer may adjust the application rate based on surface conditions. Limit application each day to the area the contractor expects to pave during that day.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the December 2014 letting:

- (1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENTS PASSING DESIGNATED SIEVES						
	NOMINAL SIZE						
	37.5 mm	25.0 mm	19.0 mm	12.5 mm	9.5 mm	SMA 12.5 mm	SMA 9.5 mm
50.0-mm	100						
37.5-mm	90 – 100	100					
25.0-mm	90 max	90 - 100	100				
19.0-mm	—	90 max	90 - 100	100		100	
12.5-mm	—	—	90 max	90 - 100	100	90 - 97	100
9.5-mm	—	—	—	90 max	90 - 100	58 - 72	90 - 100
4.75-mm	—	—	—	—	90 max	25 - 35	35 - 45
2.36-mm	15 – 41	19 - 45	23 - 49	28 - 58	20 - 65	15 - 25	18 - 28
75-µm	0 – 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	8.0 - 12.0	10.0 - 14.0
% MINIMUM VMA	11.0	12.0	13.0	14.0 ^[1]	15.0 ^[2]	16.0	17.0

^[1] 14.5 for E-0.3 and E-3 mixes.

^[2] 15.5 for E-0.3 and E-3 mixes.

460.3.4 Cold Weather Paving

Add a new subsection as follows effective with the May 2015 letting:

460.3.4 Cold Weather Paving**460.3.4.1 Cold Weather Paving Plan**

- (1) Submit a written cold weather paving plan to the engineer at the preconstruction meeting. In that plan outline material, operational, and equipment changes for paving when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F. Include the following:
- Use a department-accepted HMA mix design that incorporates a warm mix additive from the department's approved products list. Do not use a foaming process that introduces water into the mix.
 - Use additional rollers.

- (2) Engineer written acceptance is required for the cold weather paving plan. Engineer acceptance of the plan does not relieve the contractor of responsibility for pavement performance except as specified in 450.5(4).

460.3.4.2 Cold Weather Paving Operations

- (1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F unless a valid engineer-accepted cold weather paving plan is in effect.
- (2) If the national weather service forecast for the construction area predicts ambient air temperature less than 40 F at the projected time of paving within the next 24 hours, confirm or submit revisions to a previously engineer-accepted cold weather paving plan for engineer validation. Upon validation of the plan, the engineer will allow paving for the next day. Once in effect, pave conforming to the engineer-accepted cold weather paving plan for the balance of that work day or shift regardless of the temperature at the time of paving.

460.4 Measurement

Add paragraph two as follows effective with the January 2015 letting:

- (2) The department will measure HMA Cold Weather Paving by the ton of HMA mixture for pavement placed conforming to an engineer-accepted cold weather paving plan.

460.5.1 General

Revise paragraph one as follows effective with the January 2015 letting:

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
460.1100	HMA Pavement Type E-0.3	TON
460.1101	HMA Pavement Type E-1	TON
460.1103	HMA Pavement Type E-3	TON
460.1110	HMA Pavement Type E-10	TON
460.1130	HMA Pavement Type E-30	TON
460.1132	HMA Pavement Type E-30X	TON
460.1700	HMA Pavement Type SMA	TON
460.2000	Incentive Density HMA Pavement	DOL
460.4000	HMA Cold Weather Paving	TON

460.5.2.2 Disincentive for HMA Pavement Density

Revise paragraph two as follows effective with the January 2015 letting:

- (2) The department will not assess density disincentives for pavement placed in cold weather because of a department-caused delay as specified in 450.5(4).

460.5.2.4 Cold Weather Paving

Add a new subsection as follows effective with the May 2015 letting:

460.5.2.4 Cold Weather Paving

- (1) Payment for HMA Cold Weather Paving is full compensation for additional materials and equipment specified for cold weather paving under 460.3.4 including costs for preparing, administering, and following the contractor's cold weather paving plan. The department will not pay for HMA Cold Weather Paving for HMA placed on days when the department is assessing liquidated damages.
- (2) If HMA pavement is placed under 460.3.4 and the HMA Cold Weather Paving bid item is not in the contract, the department will pay for the additional costs specified in 460.5.2.4(1) as extra work. The department will pay separately for HMA pavement under the appropriate HMA Pavement bid items.

465.2 Materials

Replace paragraph two with the following effective with the December 2014 letting:

- (2) Under the other 465 bid items, the contractor need not submit a mix design. Furnish aggregates mixed with a type AC asphaltic material, except under the Asphaltic Curb bid item furnish PG58-28 asphaltic material. Use coarse and fine mineral aggregates uniformly coated and mixed with the asphaltic material in an engineer-approved mixing plant. The contractor may include reclaimed asphaltic pavement materials in the mixture.

506.3.2 Shop Drawings

Replace the entire text with the following effective with the May 2015 letting:

- (1) Ensure that shop drawings conform to the contract plans and provide additional details, dimensions, computations, and other information necessary for completely fabricating and erecting the work. Include project and structure numbers on each shop drawing sheet.
- (2) Check shop drawings and submit electronically to the department for review before beginning fabrication. For primary fabrication items, also certify that shop drawings conform to quality control standards by submitting department form DT2333. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings.
- (3) Shop drawings are part of the contract. The department must approve differences between shop drawings and contract plans. The contractor bears the costs of department-approved substitutions. Do not deviate from or revise drawings without notifying the department and resubmitting revised drawings.
- (4) Ensure that the fabricator delivers 3 sets of shop drawings for railroad structures to the railroad company upon contract completion.

Bid Items Added

Add the following new bid item effective with the January 2015 letting:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
460.4000	HMA Cold Weather Paving	TON

Errata

Make the following corrections to the standard specifications:

501.3.2.4.4 Water Reducer

Correct errata by deleting the reference to footnote 6 for grade D concrete.

- (1) Add a water reducing admixture conforming to 501.2.3. Determine the specific type and rate of use based on the atmospheric conditions, the desired properties of the finished concrete and the manufacturer's recommended rate of use. The actual rate of use shall at least equal the manufacturer's recommended rate, and both the type and rate used require the engineer's approval before use.

506.5 Payment

Correct errata by changing the reference to 506.3.22.

- (9) The department will limit costs for inspections conducted under 506.3.22 to \$0.05 per pound of material and deduct costs in excess of that amount from payment due the contractor. The department will determine costs for in-house inspections based on hourly rates for department staff plus overhead and use invoiced costs for contracted-out inspections. The department will administer deductions for the contractor's share of the total inspection cost under the Excess Costs For Fabrication Shop Inspection administrative item.

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

ADDITIONAL SPECIAL PROVISION 9
Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/index.htm>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Tess Mulrooney at 608-267-4489 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll data from their computer system into CRCS should have their payroll coordinator send several sample electronic files to Tess two months before a payroll needs to be submitted. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/docs/crc-payroll-manual.pdf>

DECEMBER 2013

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://roadwaystandards.dot.wi.gov/standards/cmm/cm-02-28.pdf#cm2-28.5>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://roadwaystandards.dot.wi.gov/standards/forms/ws4567.doc>

Effective with September 2004 Letting

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

I. WAGE RATES, HOURS OF LABOR AND PAYMENT OF WAGES

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 103.50 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) the day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, eculid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator MUST be paid separately for their driving and for the use of their truck.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 103.50 of the Wisconsin Statutes.

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

IV. WAGE RATE REDISTRIBUTION

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

V. ADDITIONAL CLASSIFICATIONS

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION
FOR ALL STATE HIGHWAY PROJECTS
MILWAUKEE COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development
for the Department of Transportation
Pursuant to s. 103.50, Stats.
Issued on May 1, 2015

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

OVERTIME: Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; the day before if January 1, July 4 or December 25 falls on a Saturday; the day following if January 1, July 4 or December 25 falls on a Sunday.

FUTURE INCREASE: If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

PREMIUM PAY: If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

SUBJOURNEY: Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Bricklayer, Blocklayer or Stonemason	35.37	17.99	53.36
Carpenter	33.68	19.99	53.67
Cement Finisher	32.75	19.21	51.96
Future Increase(s): Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Electrician	33.93	22.77	56.70
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Fence Erector	23.73	19.09	42.82
Ironworker	30.77	23.97	54.74
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Line Constructor (Electrical)	37.43	18.19	55.62
Painter	29.22	16.69	45.91
Pavement Marking Operator	30.27	18.79	49.06
Piledriver	30.11	26.51	56.62
Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.60/hr on 6/1/2016.			
Premium Pay: Add \$.65/hr for Piledriver Loftsmen; Add \$.75/hr for Sheet Piling Loftsmen. DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Roofer or Waterproofing	29.40	17.05	46.45
Teledata Technician or Installer	24.89	17.15	42.04
Tuckpointer, Caulker or Cleaner	33.76	17.82	51.58

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	14.64	46.24
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	12.83	38.51
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.63	33.38

TRUCK DRIVERS

Single Axle or Two Axle	25.18	18.31	43.49
Future Increase(s): Add \$1.15/hr on 6/1/2015. Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Three or More Axle	25.28	18.31	43.59
Future Increase(s): Add \$1.15/hr on 6/1/2015. Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Articulated, Euclid, Dumptor, Off Road Material Hauler	30.27	21.15	51.42
Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			
Pavement Marking Vehicle	23.16	17.13	40.29
Shadow or Pilot Vehicle	24.37	17.77	42.14
Truck Mechanic	24.52	17.77	42.29

LABORERS

General Laborer	27.06	20.03	47.09
Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: Add \$.15/hr for air tool operator, joint sawer and filler (pavement), vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.35/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.50/hr for line and grade specialist; Add \$.65/hr for blaster and powderman; Add \$2.01/hr for topman; Add \$2.46/hr for bottomman; Add \$3.23/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Asbestos Abatement Worker	22.05	18.41	40.46
Landscaper	27.06	20.03	47.09
Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Flagperson or Traffic Control Person	22.55	19.37	41.92

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	<u>\$</u>	<u>\$</u>	<u>\$</u>
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.71	16.01	33.72
Railroad Track Laborer	14.50	4.39	18.89

HEAVY EQUIPMENT OPERATORS

Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type).	37.72	21.15	58.87
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Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium.

See DOT'S website for details about the applicability of this night work premium at: <http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm>.

Backhoe (Track Type) Having a Mfr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.	37.22	21.15	58.37
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Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium.

See DOT'S website for details about the applicability of this night work premium at: <http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm>.

Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type);	36.72	21.15	57.87
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TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			
Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.46	21.15	57.61
Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.17	21.15	57.32
Fiber Optic Cable Equipment.	28.89	17.95	46.84
Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	41.65	21.71	63.36
Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	35.72	17.85	53.57
Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks-Great Lakes ONLY.	35.46	20.40	55.86

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150512017PROJECT(S):
1000-68-90FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 ROADWAY AND ELECTRICAL ITEMS

0010	204.0195 Removing Concrete Bases	11.000 EACH	.		.	
0020	619.1000 Mobilization	1.000 EACH	.		.	
0030	643.0100 Traffic Control (project) 01. 1000-68-90	1.000 EACH	.		.	
0040	643.0300 Traffic Control Drums	200.000 DAY	.		.	
0050	643.0420 Traffic Control Barricades Type III	25.000 DAY	.		.	
0060	643.0705 Traffic Control Warning Lights Type A	20.000 DAY	.		.	
0070	643.0715 Traffic Control Warning Lights Type C	20.000 DAY	.		.	
0080	643.0800 Traffic Control Arrow Boards	65.000 DAY	.		.	
0090	643.0900 Traffic Control Signs	150.000 DAY	.		.	
0100	643.1050 Traffic Control Signs PCMS	10.000 DAY	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150512017PROJECT(S):
1000-68-90FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	643.1055.S Truck or Trailer Mounted Attenuator 01. 1000-68-90	55.000 DAY	.		.	
0120	654.0107 Concrete Bases Type 7	1.000 EACH	.		.	
0130	654.0108 Concrete Bases Type 8	10.000 EACH	.		.	
0140	655.0610 Electrical Wire Lighting 12 AWG	200.000 LF	.		.	
0150	659.0125 Luminaires Utility HPS 250 Watts	4.000 EACH	.		.	
0160	659.0802 Plaques Sequence Identification	27.000 EACH	.		.	
0170	659.1125 Luminaires Utility LED C	40.000 EACH	.		.	
0180	SPV.0045 Special 02. ZONE 2 DISTANCE PREMIUM	2.000 DAY	.		.	
0190	SPV.0060 Special 01. LAMP DISPOSAL HIGH INTENSITY DISCHARGE	1,926.000 EACH	.		.	
0200	SPV.0060 Special 02. LIGHT TOWER RAT SCREENS	20.000 EACH	.		.	
0210	SPV.0060 Special 03. REMOVING LUMINAIRES	52.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150512017PROJECT(S):
1000-68-90FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	SPV.0060 Special 04. REMOVING LIGHTING UNITS	1.000 EACH	.		.	
0230	SPV.0060 Special 05. FUSE HOLDERS	20.000 EACH	.		.	
0240	SPV.0060 Special 06. FUSE TYPE FNQ	90.000 EACH	.		.	
0250	SPV.0060 Special 07. INSTALLING STATE FURNISHED LUMINAIRES UTILITY HPS	1.000 EACH	.		.	
0260	SPV.0060 Special 08. INSTALLING STATE FURNISHED LIGHTING UNITS	1.000 EACH	.		.	
0270	SPV.0060 Special 09. PLUMBING LIGHT POLES	1.000 EACH	.		.	
0280	SPV.0060 Special 10. DISTRIBUTION CENTER PREVENTIVE MAINTENANCE	36.000 EACH	.		.	
0290	SPV.0060 Special 11. GROUP LUMINAIRE MAINTENANCE UNDERDECK 70 W HPS	24.000 EACH	.		.	
0300	SPV.0060 Special 12. GROUP LUMINAIRE MAINTENANCE UNDERDECK 100 W HPS	112.000 EACH	.		.	
0310	SPV.0060 Special 13. GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 W MV	6.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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1000-68-90FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	SPV.0060 Special 14. GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 W MV	78.000 EACH	.		.	
0330	SPV.0060 Special 15. GROUP LUMINAIRE MAINTENANCE PROBEAM 150 W HPS	12.000 EACH	.		.	
0340	SPV.0060 Special 16. GROUP LUMINAIRE MAINTENANCE 20-FOOT 150 W HPS	4.000 EACH	.		.	
0350	SPV.0060 Special 17. GROUP LUMINAIRE MAINTENANCE 20-FOOT 400 W HPS	6.000 EACH	.		.	
0360	SPV.0060 Special 18. GROUP LUMINAIRE MAINTENANCE 30-FOOT 100 W HPS	117.000 EACH	.		.	
0370	SPV.0060 Special 19. GROUP LUMINAIRE MAINTENANCE 30-FOOT 150 W HPS	8.000 EACH	.		.	
0380	SPV.0060 Special 20. GROUP LUMINAIRE MAINTENANCE 30-FOOT 200 W HPS	42.000 EACH	.		.	
0390	SPV.0060 Special 21. GROUP LUMINAIRE MAINTENANCE 30-FOOT 250 W HPS	39.000 EACH	.		.	
0400	SPV.0060 Special 22. GROUP LUMINAIRE MAINTENANCE 40-FOOT 100 W HPS	10.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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1000-68-90FEDERAL ID(S):
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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0410	SPV.0060 Special 23. GROUP LUMINIAIRE MAINTENANCE 40-FOOT 150 W HPS	2.000 EACH	.		.	
0420	SPV.0060 Special 24. GROUP LUMINAIRE MAINTENANCE 40-FOOT 200 W HPS	51.000 EACH	.		.	
0430	SPV.0060 Special 25. GROUP LUMINAIRE MAINTENANCE 40-FOOT 250 W HPS	146.000 EACH	.		.	
0440	SPV.0060 Special 26. GROUP LUMINAIRE MAINTENANCE 40-FOOT 310 W HPS	4.000 EACH	.		.	
0450	SPV.0060 Special 27. GROUP LUMINAIRE MAINTENANCE 50-FOOT 250 W HPS	299.000 EACH	.		.	
0460	SPV.0060 Special 28. GROUP LUMINAIRE MAINTENANCE 50-FOOT 310 W HPS	178.000 EACH	.		.	
0470	SPV.0060 Special 29. GROUP LUMINAIRE MAINTENANCE 50-FOOT 400 W HPS	54.000 EACH	.		.	
0480	SPV.0060 Special 30. TUNNEL LUMINAIRE MAINTENANCE 150 WATT HPS	31.000 EACH	.		.	
0490	SPV.0060 Special 31. TUNNEL LUMINAIRE MAINTENANCE 200 WATT HPS	22.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150512017PROJECT(S):
1000-68-90FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0500	SPV.0060 Special 32. TUNNEL LUMINAIRE MAINTENANCE 250 WATT HPS	3.000 EACH	.		.	
0510	SPV.0060 Special 33. TUNNEL LUMINAIRE MAINTENANCE 400 WATT HPS	626.000 EACH	.		.	
0520	SPV.0060 Special 34. GROUP CLEAN TUNNEL LUMINAIRES	2,726.000 EACH	.		.	
0530	SPV.0060 Special 35. LUMINAIRE PROBEAM LED	2.000 EACH	.		.	
0540	SPV.0060 Special 36. LUMINAIRES HIGHMAST LIGHTING LED	10.000 EACH	.		.	
0550	SPV.0090 Special 01. INSTALLING STATE FURNISHED CABLE IN DUCT	400.000 LF	.		.	
0560	SPV.0090 Special 02. INSTALLING STATE FURNISHED MEDIAN CABLE IN DUCT	400.000 LF	.		.	
0570	SPV.0090 Special 03. REMOVING MEDIAN CABLE IN DUCT	350.000 LF	.		.	
0580	SPV.0090 Special 04. REMOVING TEMPORARY OVERHEAD LINES	250.000 LF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

PLEASE ATTACH SCHEDULE OF ITEMS HERE